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Urban Forestry & Forest Management Consulting

January 26, 2016

Sarah Marsh
Senior Landscape Architect
F.D. Fountain Landscape Architecture
1735 Courtwood Crescent, Suite 3
Ottawa, ON
K2C 3J2

Re: Tree Conservation Report – 3368 Carling Ave.

Dear Sarah,

This report details a pre-construction Tree Conservation Report (TCR) for the above-noted property in Ottawa. The property is owned by Cardel Homes (301 Moodie Drive, Suite 100, K2H 9C4, Ottawa, ON, 613-820-1959) and has a legal description of Plan 503, Lot 5, Pin: 047030343. The need for this TCR is related to the future re-development of the site which includes a lowrise apartment building with 18 underground and two surface parking spaces.

Tree Conservation Reports are required for all site plan control applications for properties on which a tree of 10 centimetres in diameter or greater is present. Once this TCR is approved by the City of Ottawa a permit to remove any designated trees will be issued. No tree removal should occur prior to the permit being obtained.

The inventory in this report details the assessment and retention/removal status of all individual trees now present on or adjacent to the subject property. Two elms and a mature cedar hedge on adjacent private property and three Manitoba maples on the subject property will remain in place during re-development. No trees are present on adjacent City of Ottawa property.

TREE SPECIES, SIZE, CONDITION AND STATUS

Table 1 on page 2 details the species, condition, size (diameter) and preservation status of trees present on the subject and adjacent private property. Each tree is referenced by the numbers plotted on the accompanying Tree Conservation Plan prepared by F.D. Fountain Landscape Architecture.



Table 1. Species, condition, diameter and status of trees at 3368 Carling Avenue.

| Tree No. | Tree Species | Condition (VP→E) | D.B.H (cm) | Tree Condition Notes & Preservation Status (to be removed or retained) |
|----------|--|------------------|------------|--|
| 1 | White elm (<i>Ulmus americana</i>) | Poor | 14 | Juvenile; dead due to Dutch elm disease (<i>Ophiostoma ulmi</i>)-DED; on adjacent private property; to be retained |
| 2 | White elm | Poor | 8 | Juvenile; dead due to DED; on adjacent private property; to be retained |
| 3 | Manitoba maple (<i>Acer negundo</i>) | Fair | 22 | Maturing; invasive species-likely originated from seed; growing on angle due to competition for sunlight; to be removed |
| 4 | Manitoba maple | Fair | 8 | Juvenile; invasive species; to be retained |
| 5 | Manitoba maple | Fair | 6 | Juvenile; invasive species; to be retained |
| 6 | Manitoba maple | Fair | 7 | Juvenile; invasive species; to be retained |
| 7 | White cedar (<i>Thuja occidentalis</i>) | Good | 7 avg. | Mature; on adjacent private property; to be retained |

Pictures 1, 2 and 3 on pages 4 and 5 show all trees detailed in Table 1.

TREE PRESERVATION AND PROTECTION MEASURES

Preservation and protection measures intended to mitigate damage during construction will be applied for the trees to be retained. The following measures are required by the City of Ottawa to ensure the survival of retained trees during and after construction:

1. Erect a fence at the critical root zone (CRZ¹) of trees;
2. Do not place any material or equipment within the CRZ of the tree;
3. Do not attach any signs, notices or posters to any tree;
4. Do not raise or lower the existing grade within the CRZ without approval;
5. Tunnel or bore when digging within the CRZ of a tree;
6. Do not damage the root system, trunk or branches of any tree;
7. Ensure that exhaust fumes from all equipment are NOT directed towards any tree's canopy.

¹ The critical root zone (CRZ) is established as being 10 centimetres from the trunk of a tree for every centimetre of trunk Diameter at breast height (DBH). The CRZ is calculated as DBH x 10 cm.

Please do not hesitate to contact me if you have any questions concerning this Tree Conservation Report.

Yours,

Andrew Boyd

Andrew K. Boyd, B.Sc.F., R.P.F.
Consulting Urban Forester





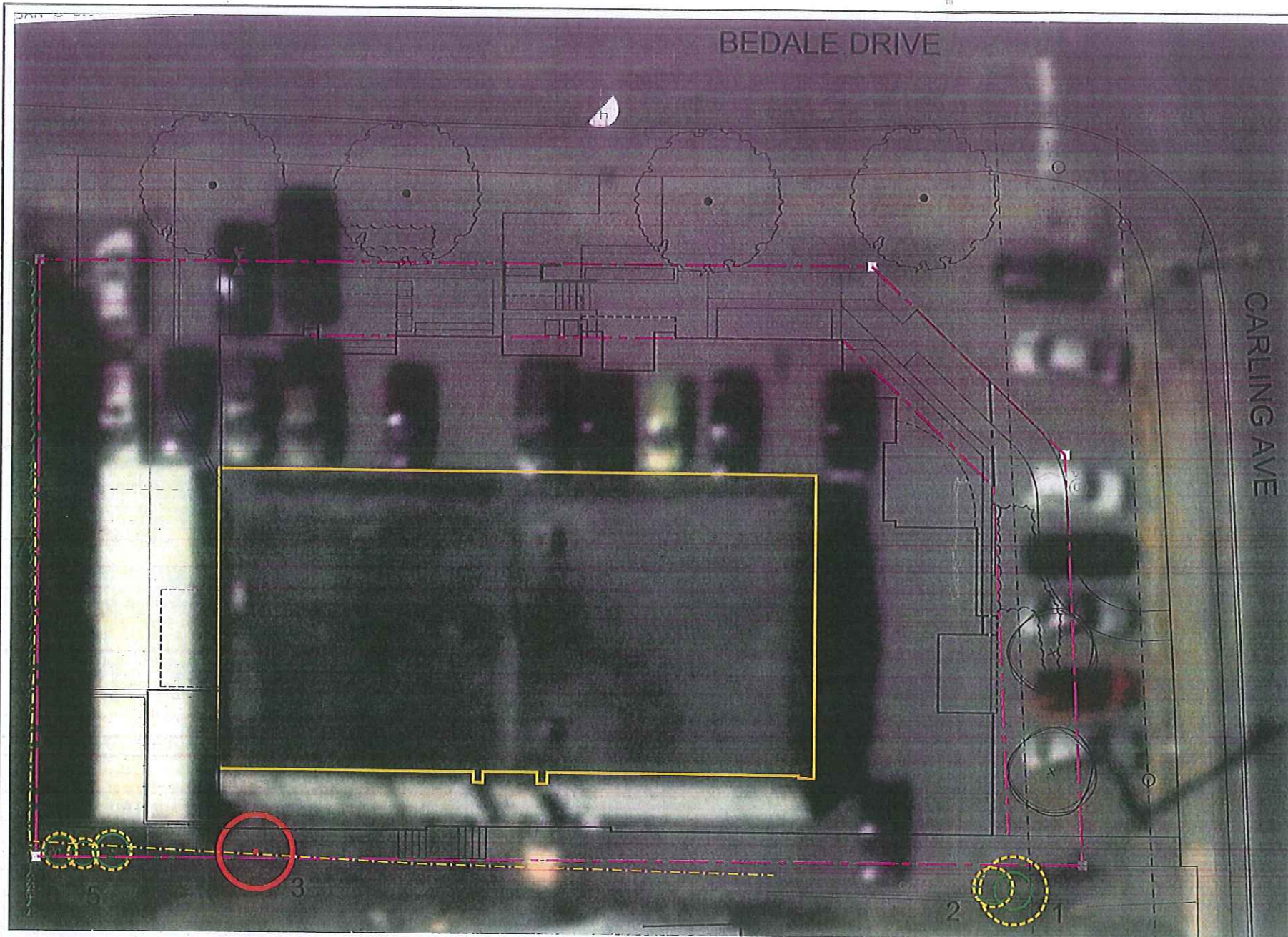
Picture 1. Adjacent cedar hedge to be retained on adjacent private property south of 3368 Carling Ave.



Picture 2. Dead white elms to be retained on adjacent private property east of 3368 Carling Ave.



Picture 3. Manitoba maples to be retained on subject property (trees are those in front of coniferous tree line).



LEGEND:

- PROPERTY LINES
- 2 EXISTING TREE TO REMAIN, TREE PROTECTION PER I-TI AND 2-TI
- EXISTING CEDAR HEDGE ON ADJACENT PROPERTY TO BE PROTECTED PER I-TI AND 2-TI
- 3 EXISTING TREE TO BE REMOVED
- CRITICAL ROOTING ZONE, REFER TO TABLE I FOR RADIUS OF CRZ, ERECT TREE PROTECTION FENCING AT LIMIT OF CRZ PER 2-TI
- EXISTING BUILDING TO BE DEMOLISHED
- PROPOSED BUILDINGS
- PROPOSED NEW SHADE TREES
- PROPOSED NEW SMALL TREES
- FENCING TO BE RETAINED

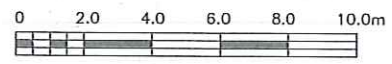
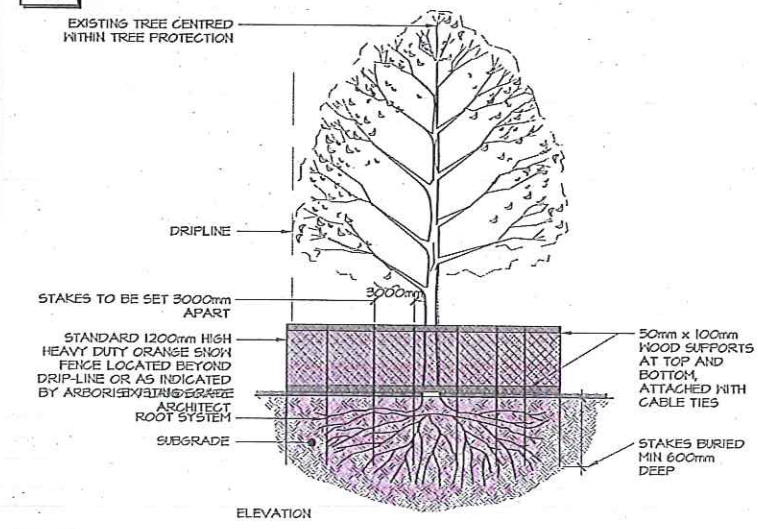


TABLE I: TREE INVENTORY

| NO. | SPECIES | D.B.H.* (cm) | CONDITION | TREATMENT | CRZ** (cm) |
|-----|---|--------------|--|--|------------|
| 1 | White Elm (<i>Ulmus americana</i>) | 14 | Juvenile; dead due to Dutch elm disease (<i>Ophiostoma ulmi</i>)-DED; on adjacent private property; to be retained | To be retained | 140 |
| 2 | White Elm | 8 | Juvenile; dead due to Dutch elm disease; on adjacent private property; to be retained | To be retained | 80 |
| 3 | Manitoba Maple (<i>Acer negundo</i>) | 22 | Fair condition | To be removed | N/A |
| 4 | Manitoba Maple | 8 | Fair condition | Juvenile; invasive species; to be retained | 80 |
| 5 | Manitoba Maple | 6 | Fair condition | Juvenile; invasive species; to be retained | 60 |
| 6 | Manitoba Maple | 7 | Fair condition | Juvenile; invasive species; to be retained | 70 |
| 7 | White Cedar (<i>Thuja occidentalis</i>) | 7 avg. | Fair condition; multi-stemmed; within floodplain | Mature; on adjacent private property; to be retained | 70 |

* D.B.H. INDICATES DIAMETER (cm) MEASUREMENT AT BREAST HEIGHT (1.3m ABOVE GRADE).
 ** CRZ. INDICATES RADIUS OF CRITICAL ROOTING ZONE.
 REFER TO RECOMMENDATIONS IN REPORT FOR TECHNIQUES TO PRESERVE TREES.

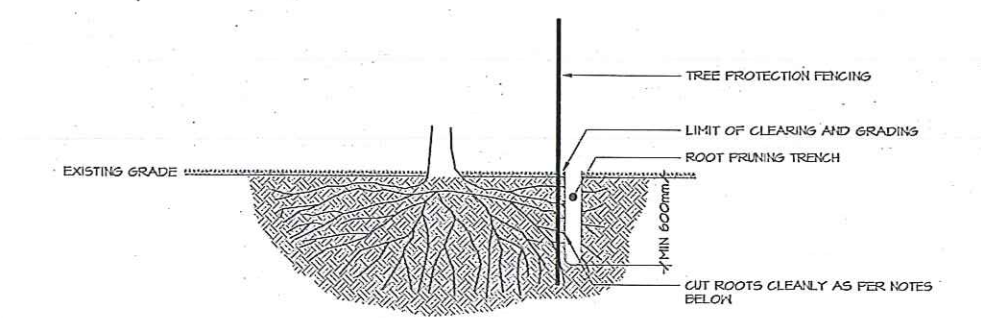
1 TREE CONSERVATION PLAN
 TI 1:100



- NOTES:**
- INSTALL TREE PROTECTION BEFORE CONSTRUCTION BEGINS AND KEEP IN PLACE UNTIL LANDSCAPE CONSTRUCTION IS COMPLETE;
 - EXISTING TREES TO REMAIN SHALL BE PROTECTED WITH CONTINUOUS ORANGE SNOW FENCING AT INDICATED LOCATION TO THE SATISFACTION OF THE ARBORIST / LANDSCAPE ARCHITECT. GROUPS OF EXISTING TREES / PLANTINGS TO REMAIN SHALL BE PROTECTED WITH CONTINUOUS SNOW FENCING AROUND ENTIRE CLUMP(S). AREAS WITH PROTECTIVE FENCING SHALL REMAIN UNDISTURBED AND NOT BE USED FOR STORAGE OF BUILDING MATERIALS OR EQUIPMENT;
 - THE GRADES WITHIN THE FENCING SHALL REMAIN UNCHANGED; NO RISING CABLES SHALL BE INSTALLED OR WRAPPED AROUND TREES. EXCESS SOIL, MATERIALS, EQUIPMENT OR DEBRIS SHALL NOT BE PLACED OVER ROOT SYSTEMS OF TREES WITHIN PROTECTIVE FENCING. NO CONTAMINANTS SHALL BE DUMPED OR FLUSHED WHERE FEEDER ROOTS OF TREES EXIST;
 - BRANCHES, LIMBS OR PORTIONS OF TREES THAT ARE REMOVED TO ALLOW FOR CONSTRUCTION WORK SHALL BE REMOVED CAREFULLY AND IN ACCORDANCE WITH ACCEPTED ARBORICULTURE PRACTICE;
 - WHERE ROOT SYSTEMS OF PROTECTED TREES ARE DIRECTLY EXPOSED TO OR DAMAGED BY CONSTRUCTION WORK, THEY SHALL BE TRIMMED NEATLY AND THE AREA BACKFILLED WITH SUITABLE MATERIAL TO PREVENT DESICCATION;
 - WHERE APPROPRIATE, THE TREES SHALL UNDERGO AN OVERALL PRUNING TO RESTORE TREE APPEARANCE AND / OR RESTORE THE BALANCE BETWEEN TOP GROWTH AND ROOTS. DO NOT PRUNE LEADERS.
 - NO MOVEMENT OF VEHICLES, EQUIPMENT OR PEDESTRIANS SHALL OCCUR WITHIN THE FENCE

2 TREE PROTECTION FENCING DETAIL
 TI n/a

3 ROOT PRUNING DETAIL
 TI n/a



- NOTES:**
- PROPER ROOT PRUNING TECHNIQUE REQUIRED WHEN TREE ROOTS ENCOUNTERED DURING EXCAVATION.
 - EXCAVATIONS WITHIN DRIPLINE SHOULD BE BY DIRECTIONAL MICRO-TUNNELLING AND BORING. OUTSIDE THE DRIPLINE, ROOTS SHOULD BE CUT CLEANLY (AS PER ABOVE DRAWING) WITH PRUNING SHEARS OR A SAW WIPED WITH ALCOHOL BEFORE EACH CUT.
 - AFTER ROOTS ARE CLEANLY CUT, THE AREA SHOULD BE BACKFILLED WITH SUITABLE MATERIAL (TO BE APPROVED BY LANDSCAPE ARCHITECT) TO PREVENT DESICCATION;
 - WHERE APPROPRIATE, THE TREES SHALL UNDERGO AN OVERALL PRUNING TO RESTORE TREE APPEARANCE AND / OR RESTORE THE BALANCE BETWEEN TOP GROWTH AND ROOTS. DO NOT PRUNE LEADERS.

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CARDEL HOMES

NOTES:
 DO NOT SCALE DRAWINGS;
 f.d. fountain landscape architecture IS NOT RESPONSIBLE FOR ACCURACY OF BASE INFORMATION;
 REFER TO TREE CONSERVATION REPORT AND PLANS FOR MORE INFORMATION ON EXISTING VEGETATION;
 THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING SITE CONDITIONS AND REPORTING ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECT;
 THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING EXACT LOCATIONS OF ALL UNDERGROUND SERVICES AND OBTAINING CLEARANCE FROM ALL APPLICABLE UTILITIES. PROPOSED WORKS FOUND TO BE IN CONFLICT WITH UNDERGROUND SERVICES MAY BE ADJUSTED AT THE DIRECTION OF THE LANDSCAPE ARCHITECT;
 LANDSCAPE ELEMENTS SHOWN ARE SUBJECT TO THE FINAL LOCATION OF UNDERGROUND SERVICES AND UTILITIES;
 PERFORM WORK IN ACCORDANCE WITH DETAILS AND SPECIFICATIONS;
 SURVEY BY xxxxxx
 THIS PLAN TO BE READ IN CONJUNCTION WITH TREE CONSERVATION REPORT BY IFS ASSOCIATES;
 SITE PLAN PREPARED BY ROSALINE J. HILL, ARCHITECT AND DEVELOPMENT CONSULTANT;

PRELIMINARY
 NOT FOR CONSTRUCTION

| | | | |
|-----|--------------------------|---------------|----|
| 1 | Issued for client review | 01/28/2016 | HM |
| No. | Revision / description | rev/3/1/1/1/1 | by |

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CARLING LOWRISE
 3368 Carling Ave

TREE CONSERVATION PLAN - EXISTING VEGETATION/DEVELOPMENT AND PROPOSED DEVELOPMENT

| | | |
|--------------------|-----------------|---------------------|
| designed: SM/HM | drawn: HM | project no: C 15-71 |
| date: January 2016 | scale: as noted | des. no: T1 of 1 |